STIC Search Report

EIC 2600

USPTO

TO: Chirag G Shah
Location: PK2 3X04
Art Unit: 2664
Wednesday, October 22, 2003

Case Serial Number: 09/685762

From: Pamela Reynolds
Location: EIC 2600
PK2-3C03
Phone: 306-0255

Pamela.Reynolds@uspto.gov

Search Notes

Dear Chirag G Shah,

Please find attached the search results for 09/685762. I used the search strategy we discussed.
I searched the standard Dialog files, and the internet.

If you would like a re-focus please let me know.

Thank you.

Pamela Reynolds

By Thurs
Mid day
(leave at 5pm)

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Chirag Shah   Examiner # : 74468   Date: 10/21/03
Art Unit: 2664   Phone Number 305-5634   Serial Number: 09/685762
Mail Box and Bldg/Room Location: 3X04   Results Format Preferred (circle): PAPER **DISK** E-MAIL

If more than one search is submitted, please prioritize searches in order of need.
****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: 10/9/00

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

See claim 1 class 5 sftswitch

any data on this ↑ ≤ 10/9/2000

STAFF USE ONLY

	Type of Search		Vendors and cost where applicable
Searcher: Pamela Illynph	NA Sequence (#)_____		STN _____
Searcher Phone #: 306-0255	AA Sequence (#)_____		Dialog ✓ _____
Searcher Location: PK 2 3C03	Structure (#) _____		Questel/Orbit _____
Date Searcher Picked Up: 10-22-03	Bibliographic ✓		Dr.Link _____
Date Completed: 10-22-03	Litigation _____		Lexis/Nexis _____
Searcher Prep & Review Time: 2	Fulltext ✓		Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____		WWW/Internet ✓ _____
Online Time: 15	Other _____		Other (specify) _____

PTO-1590 (8-01)

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File 348:EUROPEAN PATENTS 1978-2003/Oct W02
        (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20031016,UT=20031009
        (c) 2003 WIPO/Univentio
? ds

Set     Items   Description
S1          2   CLASS()(5 OR FIVE)()SOFTSWITCH
```

DIALOG(R)File 349:PCT FULLTEXT

00898560   **Image available**
SYSTEM AND METHOD FOR INTERFACING BETWEEN SIGNALING PROTOCOLS
SYSTEME ET PROCEDE PERMETTANT L'INTERFACAGE ENTRE DES PROTOCOLES DE
    SIGNALISATION
Patent Applicant/Assignee:
  GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
    (Residence), US (Nationality)
Inventor(s):
  PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US
    ,
  WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

  CAREW A J Paul, 4518 Bull Creek Road, Austin, TX 78731, US,
  WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:
  SHOWALTER Barton E (agent), Baker Botts L.L.P., 2001 Ross Avenue, Dallas,
    TX 75201-2980, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200232154 A2-A3 20020418 (WO 0232154)
  Application: WO 2001US42600 20011009 (PCT/WO US0142600)
  Priority Application: US 2000685274 20001009
Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ
  CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility
  model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM
  HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
  MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM TR
  TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-003/00
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 2512

English Abstract
  A telecommunications network (10) includes a gateway (18) that receives
  signaling information in a media gateway and call session control format
  from a **Class 5 softswitch** (26). The gateway (18) converts the media
  gateway and call session control format to a broadband loop emulation
  service signaling protocol for transfer to integrated access devices (20)
  at a customer premises (22) through a broadband loop emulation services
  network (14). The gateway (18) also receives signal information in a
  broadband loop emulation service signaling protocol from the integrated
  access devices (20) at the customer premises (22) through the broadband
  loop emulation services network (14). The gateway (18) converts the
  broadband loop emulation service signaling protocol to the media gateway
  and call session control format for transfer to the **Class 5
  softswitch** (26). The Class 5 sofswitch (26) places the media gateway and
  call session control format into a network signal format for transfer
  over a signaling network (24).

20020418 A2 Without international search report and to be
                            republished upon receipt of that report.
Search Rpt   20020822 Late publication of international search report
Republication 20020822 A3 With international search report.
Examination   20021031 Request for preliminary examination prior to end of
                            19th month from priority date

1/5/2   (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00897919   **Image available**
SYSTEM AND METHOD FOR INTERFACING SIGNALING INFORMATION AND VOICE TRAFFIC
SYSTEME   ET   PROCEDE   ASSURANT   L'INTERFACE   ENTRE   DES   INFORMATIONS   DE
    SIGNALISATION ET LE TRAFIC PHONIE
Patent Applicant/Assignee:
  GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
    (Residence), US (Nationality)
Inventor(s):
  PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US
    ,
  WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

  CAREW Paul A J, 4518 Bull Creek Road, Austin, TX 78731, US,
  WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:
  SHOWALTER Barton E (agent), Baker Botts L.L.P, 2001 Ross Avenue, Dallas,
    TX 75201-2980, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200232153 A1 20020418 (WO 0232153)
  Application: WO 2001US31644 20011009   (PCT/WO US0131644)
  Priority Application: US 2000685762 20001009
Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY
  BZ CA CH CN CO CR CU CZ CZ (utility model) DE DE (utility model) DK DK
  (utility model) DM DZ EC EE EE (utility model) ES FI FI (utility model)
  GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
  MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SK (utility
  model) SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-003/00
International Patent Class: H04M-007/00
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 2700

English Abstract
  A telecommunications network (10) includes a gateway (18) that receives
  signaling information in a message based signaling format from a **Class
  5 softswitch** (26). The gateway (18) also receives voice traffic over
  an inter-machine trunk from a public switched telephone network (12). The
  gateway (18) places the voice traffic into data packets. The gateway (18)
  transfers the data packets and the signaling information to an Internet
  Protocol network (30). The data packets and the signaling information may

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File   34:SciSearch(R) Cited Ref Sci 1990-2003/Oct W2
          (c) 2003 Inst for Sci Info
File   35:Dissertation Abs Online 1861-2003/Sep
          (c) 2003 ProQuest Info&Learning
File   65:Inside Conferences 1993-2003/Oct W3
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File   94:JICST-EPlus 1985-2003/Oct W3
          (c)2003 Japan Science and Tech Corp(JST)
File   95:TEME-Technology & Management 1989-2003/Oct W1
          (c) 2003 FIZ TECHNIK
File   99:Wilson Appl. Sci & Tech Abs 1983-2003/Sep
          (c) 2003 The HW Wilson Co.
File  144:Pascal 1973-2003/Oct W2
          (c) 2003 INIST/CNRS
File  233:Internet & Personal Comp. Abs. 1981-2003/Jul
          (c) 2003, EBSCO Pub.
File  239:Mathsci 1940-2003/Nov
          (c) 2003 American Mathematical Society
File  434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
          (c) 1998 Inst for Sci Info
File  583:Gale Group Globalbase(TM) 1986-2002/Dec 13
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          (c)2001 ProQuest Info&Learning
File  483:Newspaper Abs Daily 1986-2003/Oct 20
          (c) 2003 ProQuest Info&Learning
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Set     Items   Description
S1         0    CLASS()(5 OR FIVE)()SOFTSWITCH
S2         0    CLASS()(5 OR FIVE)(3N)SOFTSWITCH
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File 348:EUROPEAN PATENTS 1978-2003/Oct W02
        (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20031016,UT=20031009
        (c) 2003 WIPO/Univentio
? ds

Set     Items   Description
S1          2   CLASS()(5 OR FIVE)()SOFTSWITCH
```

00898560   **Image available**
SYSTEM AND METHOD FOR INTERFACING BETWEEN SIGNALING PROTOCOLS
SYSTEME ET PROCEDE PERMETTANT L'INTERFACAGE ENTRE DES PROTOCOLES DE SIGNALISATION

Patent Applicant/Assignee:
  GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US (Residence), US (Nationality)

Inventor(s):
  PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US
,
  WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

  CAREW A J Paul, 4518 Bull Creek Road, Austin, TX 78731, US,

  WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:
  SHOWALTER Barton E (agent), Baker Botts L.L.P., 2001 Ross Avenue, Dallas, TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):
  Patent: WO 200232154 A2-A3 20020418 (WO 0232154)
  Application: WO 2001US42600 20011009   (PCT/WO US0142600)
  Priority Application: US 2000685274 20001009

Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/00
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 2512

English Abstract
  A telecommunications network (10) includes a gateway (18) that receives signaling information in a media gateway and call session control format from a **Class 5 softswitch** (26). The gateway (18) converts the media gateway and call session control format to a broadband loop emulation service signaling protocol for transfer to integrated access devices (20) at a customer premises (22) through a broadband loop emulation services network (14). The gateway (18) also receives signal information in a broadband loop emulation service signaling protocol from the integrated access devices (20) at the customer premises (22) through the broadband loop emulation services network (14). The gateway (18) converts the broadband loop emulation service signaling protocol to the media gateway and call session control format for transfer to the **Class 5 softswitch** (26). The Class 5 sofswitch (26) places the media gateway and call session control format into a network signal format for transfer over a signaling network (24).

20020418 A2 Without international search report and to be
                          republished upon receipt of that report.
Search Rpt   20020822 Late publication of international search report
Republication 20020822 A3 With international search report.
Examination   20021031 Request for preliminary examination prior to end of
                          19th month from priority date

1/5/2   (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00897919   **Image available**
SYSTEM AND METHOD FOR INTERFACING SIGNALING INFORMATION AND VOICE TRAFFIC
**SYSTEME   ET   PROCEDE   ASSURANT   L'INTERFACE   ENTRE   DES   INFORMATIONS   DE
    SIGNALISATION ET LE TRAFIC PHONIE**
Patent Applicant/Assignee:
  GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
    (Residence), US (Nationality)
Inventor(s):
  PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US
  ,
  WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

  CAREW Paul A J, 4518 Bull Creek Road, Austin, TX 78731, US,
  WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:
  SHOWALTER Barton E (agent), Baker Botts L.L.P, 2001 Ross Avenue, Dallas,
    TX 75201-2980, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200232153 A1 20020418 (WO 0232153)
  Application: WO 2001US31644 20011009 (PCT/WO US0131644)
  Priority Application: US 2000685762 20001009
Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY
  BZ CA CH CN CO CR CU CZ CZ (utility model) DE DE (utility model) DK DK
  (utility model) DM DZ EC EE EE (utility model) ES FI FI (utility model)
  GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
  MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SK (utility
  model) SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-003/00
International Patent Class: H04M-007/00
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 2700

English Abstract
  A telecommunications network (10) includes a gateway (18) that receives
  signaling information in a message based signaling format from a **Class
  5 softswitch** (26). The gateway (18) also receives voice traffic over
  an inter-machine trunk from a public switched telephone network (12). The
  gateway (18) places the voice traffic into data packets. The gateway (18)
  transfers the data packets and the signaling information to an Internet
  Protocol network (30). The data packets and the signaling information may

File 344:Chinese Patents Abs Aug 1985-2003/Apr
         (c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Jun(Updated 031006)
         (c) 2003 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2003/Oct W02
         (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20031016,UT=20031009
         (c) 2003 WIPO/Univentio
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200367
         (c) 2003 Thomson Derwent

? ds

Set   Items   Description
S1   895   AU=(PARHAM, E? OR WILLIAMS, B? OR CAREW, A? OR WHITCHER, R?
                OR PARHAM E? OR WILLIAMS B? OR CAREW A? OR WHITCHER R?)
S2   ·   3   S1 AND SOFTSWITCH

DIALOG(R)File 349:PCT FULLTEXT
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00911818   **Image available**
SYSTEM AND METHOD FOR COMMUNICATING TELECOMMUNICATION INFORMATION BETWEEN
    AND A BROADBAND NETWORK AND A TELECOMMUNICATION NETWORK
SYSTEME ET PROCEDE DE COMMUNICATION D'INFORMATIONS DE TELECOMMUNICATION
    ENTRE UN RESEAU A BANDE LARGE ET UN RESEAU DE TELECOMMUNICATION
Patent Applicant/Assignee:
  GENERAL BANDWIDTH INC, 12303 B Technology Boulevard, Austin, TX 78727, US
    , US (Residence), US (Nationality)
Inventor(s):
   CAREW A J Paul , 4518 Bull Creek Road, Austin, TX 78731, US,
  MILLS Brendon W, 8213 Crabtree Drive, Austin, TX 78750, US
Legal Representative:
  SHOWALTER Barton E (agent), Baker Botts L.L.P., Suite 600, 2001 Ross
    Avenue, Dallas, TX 75201-2980, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200245368 A2-A3 20020606 (WO 0245368)
  Application: WO 2001US44491 20011128 (PCT/WO US0144491)
  Priority Application: US 2000724603 20001128; US 2000724714 20001128
Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ
  CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility
  model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM
  HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
  MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM
  TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-012/66
International Patent Class: H04L-012/28
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 16221

English Abstract
  A system for communicating telecommunication information includes a
  memory packetization modules, and a telecommunication interface module.
  The memory stores subscriber profiles associating eachof several
  subscribers with a telecommunication interface. The packetization modules
  receive data packets from a broadband network and extract
  telecommunication information associated with a subscriber from the data
  packets. The telecommunication interface module communicates the
  telecommunication information to a telecommunication network using a
  telecommunication interface associated with the subscriber.

French Abstract
  L'invention concerne un systeme de communication d'informations de
  telecommunication comprenant des modules de mise en paquet de memoire et
  un module d'interface de telecommunication. La memoire stocke des profils
  d'abonne associant chaque abonne a une interface de telecommunication.
  Les modules de mise en paquet recoivent des paquets de donnees d'un
  reseau a bande large et extraient des informations de telecommunication
  associees a un abonne de paquets de donnees. Le module d'interface de
  telecommunication communique ·les informations de telecommunication a un

reseau de telecommunication au moyen d'une interface de telecommunication associee a l'abonne.

Legal Status (Type, Date, Text)
Publication   20020606 A2 Without international search report and to be
                        republished upon receipt of that report.
Search Rpt   20020801 Late publication of international search report
Republication 20020801 A3 With international search report.
Republication 20020801 A3 Before the expiration of the time limit for
                        amending the claims and to.be republished in the
                        event of the receipt of amendments.
Examination   20021121 Request for preliminary examination prior to end of
                        19th month from priority date

Inventor(s):
  CAREW A J Paul ...
Fulltext Availability:
  Detailed Description

Detailed Description
... a management device 19. Management device 19 may be a network
  management system (NMS), a **softswitch** , or any other suitable device for
  managing the operation of gateway 18 and may communicate...or a
  management device 19. Management device may be a network management
  system (NMS), a **softswitch** , or any other suitable device for managing
  the operation of gateway 18 and may communicate...or a management device
  19. Management device may be a network management system (NMS), a
  softswitch , or any other suitable device for managing the operation of
  gateway 18 and may communicate...

 2/5,K/2   (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00898560   **Image available**
SYSTEM AND METHOD FOR INTERFACING BETWEEN SIGNALING PROTOCOLS
SYSTEME ET PROCEDE PERMETTANT L'INTERFACAGE ENTRE DES PROTOCOLES DE
   SIGNALISATION
Patent Applicant/Assignee:
  GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, .TX 78727, US, US
   (Residence), US (Nationality)
Inventor(s):
  PARHAM Eric S , 4610 Beechwood Hollow, Travis County, Austin, TX 78731,
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  WILLIAMS Brian E , 1641 Montana Trail, Collin County, Plano, TX 75023,
   US,
  CAREW A J Paul , 4518 Bull Creek Road, Austin, TX .78731, US,
  WHITCHER Robert , 5017 Valburn Court, Travis County, Austin, TX 78731,
   US
Legal Representative:
  SHOWALTER Barton E (agent), Baker Botts L.L.P., 2001 Ross Avenue, Dallas,
   · TX 75201-2980, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200232154 A2-A3 20020418 (WO 0232154)
  Application: WO 2001US42600 20011009 (PCT/WO US0142600)
  Priority Application: US 2000685274 20001009
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  CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility
  model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM

HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04Q-003/00
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 2512

English Abstract
  A telecommunications network (10) includes a gateway (18) that receives
  signaling information in a media gateway and call session control format
  from a Class 5 **softswitch** (26). The gateway (18) converts the media
  gateway and call session control format to a broadband loop emulation
  service signaling protocol for transfer to integrated access devices (20)
  at a customer premises (22) through a broadband loop emulation services
  network (14). The gateway (18) also receives signal information in a
  broadband loop emulation service signaling protocol from the integrated
  access devices (20) at the customer premises (22) through the broadband
  loop emulation services network (14). The gateway (18) converts the
  broadband loop emulation service signaling protocol to the media gateway
  and call session control format for transfer to the Class 5 **softswitch**
  (26). The Class 5 sofswitch (26) places the media gateway and call
  session control format into a network signal format for transfer over a
  signaling network (24).

French Abstract
  L'invention se rapporte a un reseau de telecommunication (10) comprenant
  une passerelle (18) qui recoit des informations de signalisation dans un
  format de controle de session d'appel et de passerelle de media de la
  part d'un commutateur logiciel (26) de classe 5. La passerelle (18)
  convertit le format de controle de la session d'appel et de passerelle de
  media en un protocole de signalisation de service d'emulation de boucle
  de transmission a large bande en vue du transfert vers des dispositifs
  d'acces integre (20) situes chez l'abonne par l'intermediaire d'un reseau
  (14) de services d'emulation de boucle de transmission a large bande. La
  passerelle (18) recoit egalement des informations de signalisation dans
  un protocole de signalisation de service d'emulation de boucle de
  transmission a large bande en provenance de dispositifs (20) d'acces
  integre situes chez l'abonne (22) par l'intermediaire du reseau (14) de
  services d'emulation de boucle de transmission a large bande. La
  passerelle (18) convertit le protocole de signalisation de service
  d'emulation de boucle de transmission a large bande aux fins d'obtention
  du format de controle de session d'appel et de passerelle de media pour
  le transfert vers le commutateur logiciel (26) de classe 5. Ce
  commutateur logiciel (26) de classe 5 transforme le format de controle de
  session d'appel et de passerelle de media en un format de signalisation
  de reseau en vue du transfert sur un reseau de signalisation (24).

...5
   softsw@tch in the media gateway and call session control
   format, the Class 5 **softswitch** operable to convert the media
   gateway and call session control format to the network
   signaling...

   2/5,K/3   (Item 3 from file: 349)
   DIALOG(R)File 349:PCT FULLTEXT
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   00897919   **Image available**
   SYSTEM AND METHOD FOR INTERFACING SIGNALING INFORMATION AND VOICE TRAFFIC
   SYSTEME   ET   PROCEDE   ASSURANT   L'INTERFACE   ENTRE   DES   INFORMATIONS   DE
      SIGNALISATION ET LE TRAFIC PHONIE
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   English Abstract
     A telecommunications network (10) includes a gateway (18) that receives
     signaling information in a message based signaling format from a Class 5
     softswitch (26). The gateway (18) also receives voice traffic over an
     inter-machine trunk from a public switched telephone network (12). The
     gateway (18) places the voice traffic into data packets. The gateway (18)
     transfers the data packets and the signaling information to an Internet
     Protocol network (30). The data packets and the signaling information may

General Bandwidth and Syndeo Demonstrating Softswitched Calls over Fiber to the Premises Networ
SUPERCOMM 2003
Wednesday, May 28, 2003

Latest G6® Next Generation Network Software Supports Interoperability with Leading
and Call Management Servers

Austin, TX -- **May 28, 2003** -- General Bandwidth, a leading telecommunications equipment provider enabl deliver enhanced voice services over broadband networks, will be demonstrating softswitch-based voice ove services over Fiber to the Premises (FTTP) solutions at SUPERCOMM 2003 in Atlanta, Georgia (Booth #21

Powered by General Bandwidth's latest G6® Next Generation Network (NGN) software release, the G6 Pac Migration Platform will be supporting VoIP services over FTTP solutions using the Syndeo Syion™ 426 so unique, non-cable environment. Softswitches are the backbone of packet-based telephony networks, provid control, signaling, and routing instructions that touch almost every network element. One of only two softsw recently gained qualification status for PacketCable™ at CableLabs, the Syndeo Syion 426 is a carrier-gra featured CLASS 5/Local Exchange softswitch and services platform that delivers an extensive suite of reven features across any combination of access networks. The G6 platform, which enables softswitched voice cal connected to traditional circuit-based networks, serves as a trunking media gateway for the Syndeo softswitc demonstration.<?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" />

Prior to this new software release, the General Bandwidth G6 platform has been used extensively by both do international carriers as a circuit-to-packet gateway for "Class 5-derived" Voice over FTTx/PON, Cable, and T1/DSL services. With the G6 NGN software, the G6 platform can serve as both a Class 5-derived and trun gateway providing a seamless migration of voice services from a single carrier class, NEBS Level 3 certified With the platform's ability to simultaneously support calls from legacy Class 5 switches using GR-303/TR-0 interfaces as well as next generation softswitches using TGCP signaling, carriers

can finally bridge the gap between legacy circuit networks and packet networks while maintaining lower cap operation expenditures and ensuring the evolution of their networks in support of next generation services. the overall migration path toward an all packet-based voice network, General Bandwidth is also developing the G6 platform in support of reverse GR-303 gateway functionality providing a Digital Loop Carrier (DLC in later half of 2003. The G6 platform's DLC proxy will allow carriers to use softswitch technology on thei loop carriers, creating an economical migration path to packet-based voice without stranding their capital inv the edge of their network.

In addition to support for primary line Class 5 services via a softswitch, the G6 platform can also be used in with a SIP-based feature server to provide exciting new IP Centrex features such as advanced call screening, services, and dialing from directories, in addition to standard traditional Centrex features. With the G6 platf finally have a truly carrier-grade, scalable platform from which to launch hosted communication services su Centrex.

"Voice providers are caught in a vise between increasing competition on one hand and older generation equi their networks," said Brendon Mills, CEO of General Bandwidth. "Using the G6 platform with our new NG carriers can immediately grow revenues and generate cost savings using their current networks with the assu can easily migrate to new, packet-based services as they become available within their network. Carriers no compelling platform to acquire or win-back customers and provide IP Centrex and new softswitch-based fea broad scale to the mass markets."

With the ability to support 240 to 3360 ports per chassis, the G6 platform is "right-sized" for large and smal

deployments. The G6 platform offers 99.999% availability and meets or exceeds the most stringent requirem central office environments, including NEBS Level 3 certification, as well as passing all ILEC extended NE certification tests.

About Syndeo

Syndeo Corporation was formed in 1999 to empower communications providers like cable operators to driv value over their next-generation converged networks by offering VoIP (voice-over-IP) services. The compan Call Management Server combines revenue-generating features with a carrier-grade softswitch platform that to large numbers of subscribers. Syndeo has raised $98 million to date from a consortium of cable operators financial investors. The company gained ISO 9001 Quality System Standard certification in March 2000. F information, call 408-861-1000 or visit Syndeo's web site at www.syndeocorp.com.

About General Bandwidth

General Bandwidth Inc. is a TL 9000 certified, leading developer of telecommunications equipment that is c build-out of the new voice infrastructure. General Bandwidth is focused exclusively on developing solutions exceed the stringent requirements of large and small carriers. General Bandwidth's flagship G6$^{®}$ Packet Te Migration Platform enables service providers to deploy voice over broadband technology to cost effectively services over their existing broadband infrastructure, to better utilize their existing resources by efficiently a access network traffic, and to provide a migration path to end-to-end packet networks.
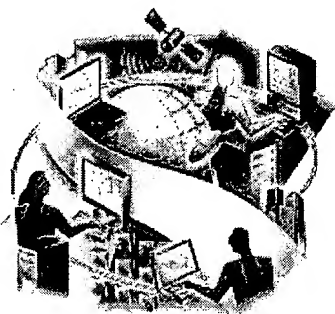
Founded in 1999, General Bandwidth is located at 12303 Technology Blvd., Austin, Texas 78727; phone: 5 fax: 512/681-5401; toll free: 877/818-2160; www.genband.com

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Softswitch refers to an architecture for a device that supports the integration of IP telephony and the PSTN. In the NPN, the traditional circuit-switched voice network will slowly give way to a packet-oriented voice and data network based on Internet technology. See "NPN (New Public Network)."

Softswitches are an alternative form of Class 5 switch. A Class 5 switch is a big expensive telephony switch, located in central offices all over the world. It accepts dial-up telephone calls from users and creates circuits across a hierarchy of telephone switches, some local, and some regional, national, or international. Call setup and management is handled by SS7 (Signaling System 7), which runs as an out-of-band signaling protocol to control PSTN switching equipment. See "Telecommunications and Telephone Systems" for more details about this system.

Proponents of the convergence of voice and data on an all-packet network point out the superiority of the packet model. Bandwidth and QoS to support voice are quickly becoming a reality in the Internet. However, the PSTN and the Internet will coexist for some time and there will be a need for integration. For example, until convergence is complete, IP telephone users will no doubt want to connect with a PSTN telephone user, and vice versa. This means that Internet protocol devices will need to talk to SS7 devices, and vice versa. That calls for a gateway.

Proponents of convergence also point out the inflexibility of the traditional telephone switch. Wrapped up in one big device are switching, call setup and management features, and application-level calling features like caller ID and call waiting. This model has made it very difficult for the telephone company to add new features. The convergence proponents replace the Class 5 switch with a "softswitch architecture" that has these components:

- **Media gateway**   The media gateway is just the switch portion of the Class 5 switch. Switching technology has advanced tremendously over the past few years, and vendors can easily produce inexpensive media gateways that can handle many more calls in a smaller size than Class 5 switches.
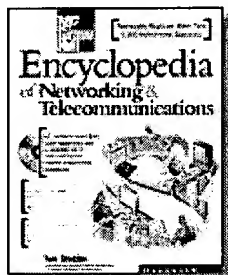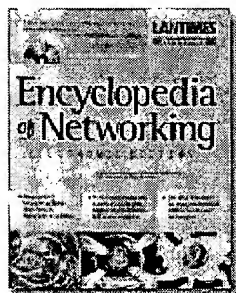
smaller size than Class 5 switches.

- **Media gateway controller**   This component runs the call control and application-level calling features in a server that supports easy software upgrades and expansion of features. The media gateway translates between circuit-switched voice traffic and packet-based traffic. It is also called the "call agent" and it controls the media gateway.

The media gateway is a relatively inexpensive "dumb box" that translates packets into circuits and circuits into packets. As such, the media gateway has become a commodity item and is appearing in rack-mounted systems at carrier POPs that support co-location. In contrast, the media gateway controller holds all the intelligence. It supports the integration of SS7 and Internet protocols, and maintains information about traffic flows that can be used for billing purposes.

Since the media gateway and the media gateway controller are separated, a protocol is needed that allows the media gateway controller to control the media gateway. In 1999, the IETF and the ITU formally agreed to work on a single protocol, which is known as Megaco/H.248. The ITU has largely taken over this development as H.248. This is discussed further under "Voice over IP (VoIP)." A related protocol is SIP (Session Initiation Protocol), an application layer control protocol for setting up, maintaining, and terminating voice and videoconferencing sessions. It allows different media gateway controllers to communicate and allows end users to request services from media gateway controllers. See "SIP (Session Initiation Protocol)."

An example softswitch is the Alcatel 1000, which is designed to support the gradual migration from voice-centric to data-centric environments. It provides the brains for a converged voice and data network, handles call setup and establishes control paths, controls the trunking gateways that convert TDM signals (PSTN voice calls) to voice over IP, and supports all services in the existing PSTN IN (Intelligent Network).

The Softswitch Consortium Web site has a list of product vendors. This topic continues under "Voice over IP (VoIP)." A full set of Web links is also located under that topic. Also see "Voice/Data Networks."

The IETF PINT Working Group has addressed the arrangement through which Internet applications can request PSTN services. The IETF SPIRITS (Service in the PSTN/IN Requesting InTernet Service) Working Group has addressed the opposite arrangement in which PSTN users request services that require an interaction between the PSTN and the Internet. Some examples covered by SPIRITS include Internet call waiting, Internet caller-ID delivery, and Internet call forwarding. See "SPIRITS (Service in the PSTN/IN Requesting InTernet Service)" and "PINT (PSTN and Internet Internetworking)" for more information.

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